

Basic Components in SAM

- **Client:** A process that has data packets to send.
- **Sequencer:** Serialize data packets sent to the group
- **Commit Server:** Store the ordering information for each data packet.
- **Data Server:** Store data packets.
- **Checkpoint Server:**
 - Do message consolidation.

Note: *Logical concept only.*

Assumptions: *Unique Process ID*

Unique Data Packet ID (e.g. Process ID + seq)

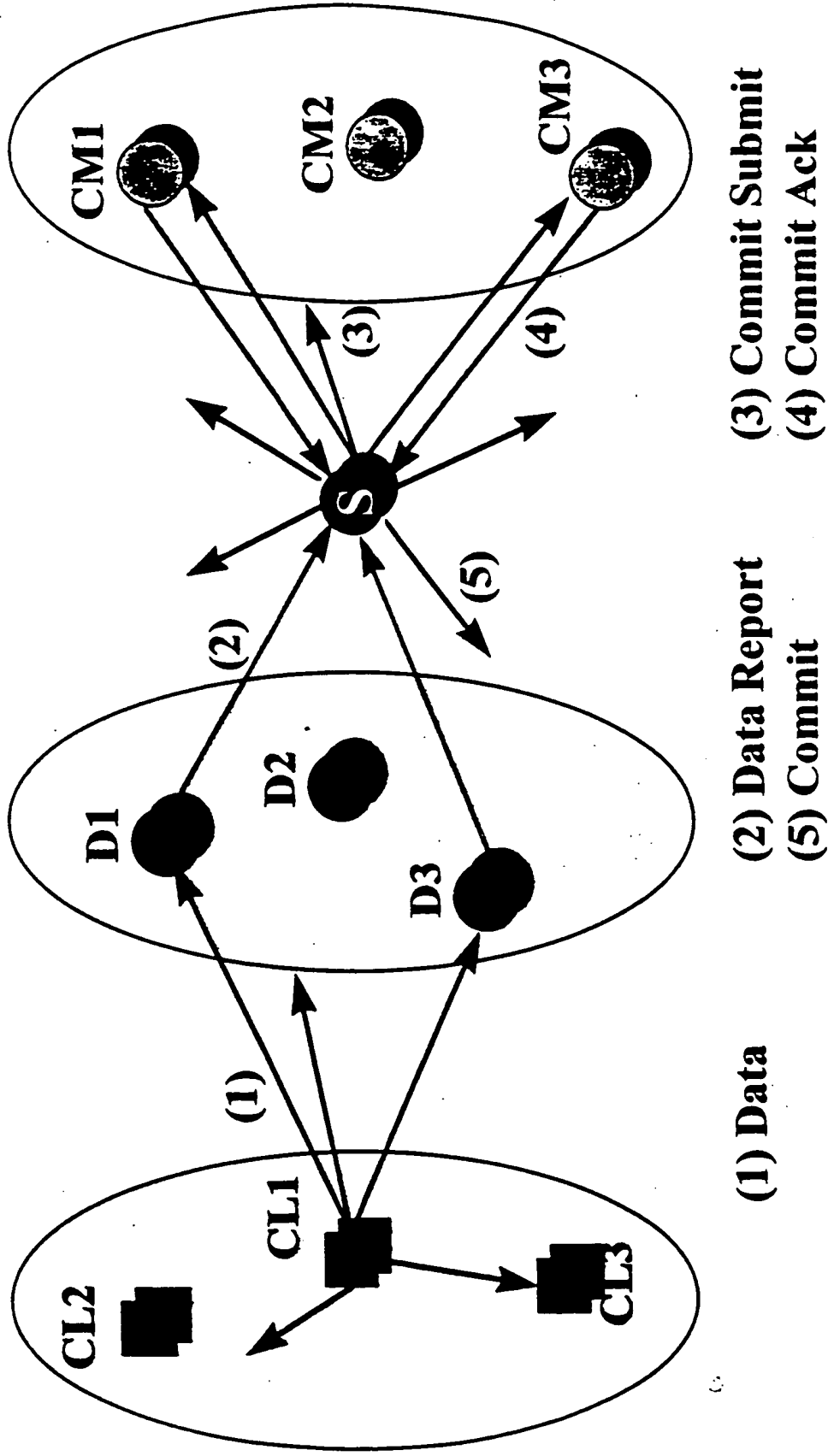


08/24/98

7

Fig 1(c) in model

Sending a Data Packet in SAM



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Fig. 1(e) (internal)

Asynchronous Communication AND Total Ordering?

- Deliver pkts in order of commit number (continuous!)
- If a pkt is missing, get its pkt ID from *commit servers*, then get the pkt from *data servers*.
- Guaranteed atomicity and total ordering! No need to get response from other clients.

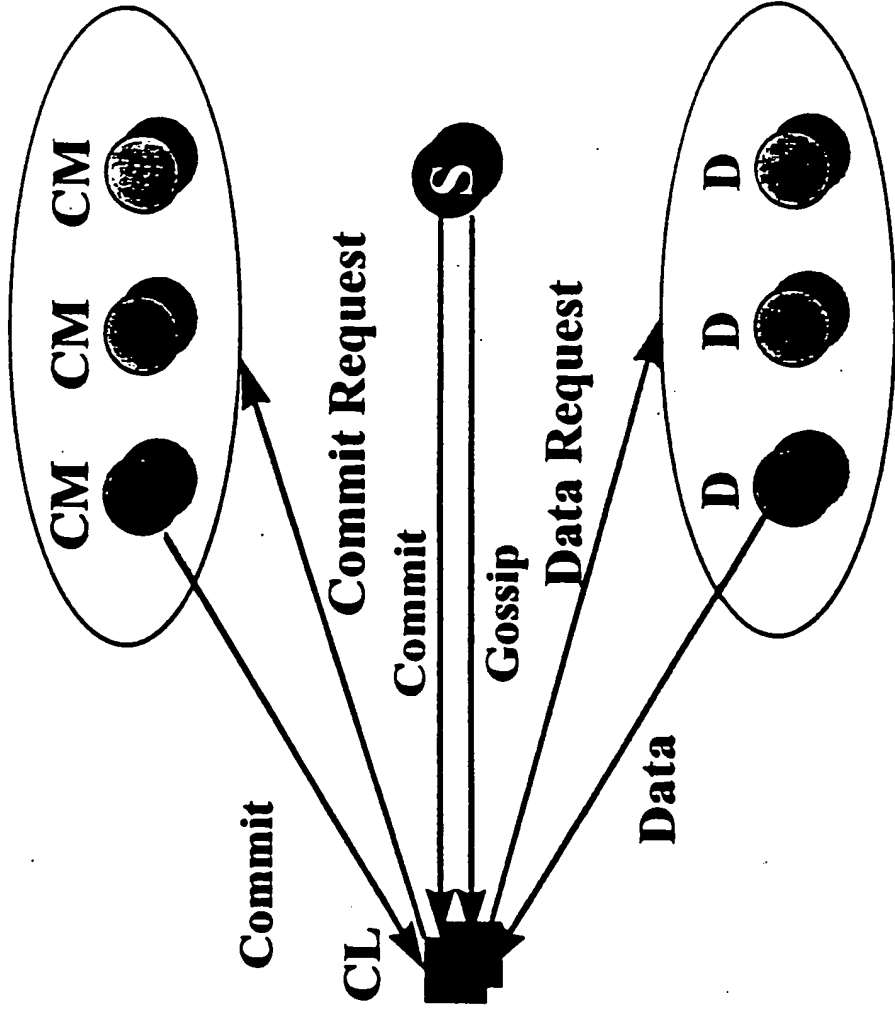


fig2 (informal)